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VINSON MELIANS LLP. THE TTREACE? 2901 VIA PORTUNA SUTTE 100 ALETTIN, TEXAS 2074 TELEPHONE (UD inches FAX (512) 542-8412

5 MAY -6 P1:59

David P. Blanke Direct Dial (512) 542-8622 Direct Fee (\$12) 236-3314 dhale whereon

# FACSIMILE TRANSMITTAL PAGE

DATE:

May 6, 2003

Glenn A. Ballard, Jr.

FAX: 713.221.1212

Bracewell & Patterson

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TO:

Marc Labgold

FAX:

703.744.8001

Kevin M. Bell

Patton Boggs (VA)

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TO:

Richard J. Oparil

FAX:

202.457.6315

Patton Boggs (DC)

PHONE: 202.457.6000

PAGES:

(including this transmittal page)

CLIENT/MATTER: INV850/13000

FROM:

David P. Blanke

MESSAGE:

David Blanke's 05/06/03 letter further responding to 04/14/03 Oparil letter.

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### CONFIDENTIALITY NOTICE:

The information contained in this FAX may be confidential under privileged. This FAX is intended to be reviewed initially by only the individual named above. If the reader of this TRANSMITTAL PAGE is not the intended recipient or a representative of the intended recipient, you are bureful and that any review, distended acceptant of the intended recipient, you are fAX in error, please immediately notify the sender to telephone and return this FAX to the sender as the above address. Thank you.

Vinson & Elkins E

VINSON & BLIGHTS L.L.P.
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David P. Blanke Direct Dial (512) 542-8622 Direct Fax (512) 236-3314 dblanke@websw.com

May 6, 2003

By Fax

Mr. Richard J. Oparil Patton Boggs L.L.P. 2550 M Street NW Washington, DC 20037

Re: Baylar College of Medicine, et al. v. Clontech Laboratories, Inc.: Cause No. 2001-61352

Dear Richard:

I am further responding to your April 14 letter. Earlier I wrote regarding the Ruobo Zhang exhibits. As to the '808 continuations, we will be producing the non-privileged documents on this issue. In the meantime, I am providing the accompanying preliminary amendment and notice of allowance from the PTO.

Ath unly homs.

David P. Blanke

#### anachment

Glenn A. Ballard, Jr. (by fax; w/att.)
Kevin Bell (by fax; w/att.)
Tracey B. Davies [Firm; w/o att.]
M. Michelle Muller [Firm; w/o att.]
Jason M. Powers [Firm; w/o att.]

MAY 86 2883 12:50 PM FR SON & ELKINS 512 542 8612



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

Address: ASSISTANT COMMISSIONER FOR PATENTS

	60.000.000			
APPLICATION NOJ	FILING DATE	PIRST NAMED INVENTOR!	-•	ATTORNEY DOCKET NO.
CONTROL NO.		PATENT IN REEXAMINATION		
	<del></del>			

EXAMINER

ART UNIT

PAPER

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

-Sec attached-

	Application No.	Applicant(s)		
Notice of Allowability	09/122,384	ELLEDGE ET AL.		
Welled of Milandpliff	Examiner	.; Art Unit		
	James S. Ketter	1636		
- The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OK REMAINS) CLOSED in or other appropriate commu GHTS - This application in a	this application. If not includ	ed	
<ol> <li>This communication is responsive to the amendment of 10.</li> <li>The allowed claim(s) is/are 43-68.</li> <li>The drawings filed on 20 March 2001 are accepted by the latent of the latent of</li></ol>	saminer.			
1. Certified copies of the priority documents have	been received.			
2. Certified copies of the priority documents have	been received in Application	n No.		
3. Copies of the certified copies of the priority doc	ments have been received	in this national stage applica	tion from the	
international Bureau (PCT Rule 17.2(a)).  * Cartified copies not received:				
5. Actorowledgment is made of a claim for domestic priority un	der 35 U.S.C. § 119(e) (to a	Languisional application)		
(a) [_] The translation of the foreign language provisional ar	plication has been received	1.		
<ol><li>Acknowledgment is made of a claim for domestic priority un</li></ol>	der 35 U.S.C. 🕵 120 and/o	r 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of the color. Failure to timely comply will result in ABANDONIMENT of the color. The color of the	to application. I MIN THRI	MINISTER ANGENCE	extendable.	
		east in detrictiff	1	
<ol> <li>CORRECTED DRAWINGS must be submitted.</li> <li>(a) \( \subseteq \) including changes required by the Notice of Draftsperse</li> </ol>	erio Rossos Den die o De de d	. J. Attion in	İ	
1) I hereto or 2) I to Paper No	er a Lateur Dismits Lendon	(PTO-948) attached	ĺ	
(b) including changes required by the proposed drawing or	extraction filed , which	) has been annoved by me 5	vamina.	
(c) including changes required by the attached Examiner's	Amendment / Comment or	in the Office action of Paper N	to.	
identifying indicts such as the application number (see 37 CFR 1.8 of each sheet. The drawings should be filed as a separate paper of				
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I ☐ Notice of References Cited (PTO-892) I☐ Notice of Draftpercon's Patent Drawing Review (PTO-948) I☑ Information Discussure Statuments (PTO-1449), Paper No. 2º, I☐ Examiners Comment Regarding Requirement for Deposit of Biological Material	4□ Interview 4□ Examiner	Informal Patent Application (P Summary (PTO-413), Paper N & Amendment/Comment 's Statement of Reasons for A	to	
		JAMES KI PRIMARY D	etter Aminer	



# UNITED STATES PATENT AND TRADEMARK OFFICE

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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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04/22/2000

VINSON & ELKINS, L.L.P. 1001 FANNIN STREET 2300 FIRST CITY TOWER HOUSTON, TX 77002-6760

RECEIVED

APR 2 8 2003 P Docket Office Vinson & Elkins BYAND BR

KETTER JAMPS S

ART UNIT

CLASS-SUBCLASS

DATE MAILED- 04/22/2003

		_		
APPLICATION NO. 09/122,384	91LING DATE 07/24/1998	Stephen I. Ellédge Stephen I. Ellédge	ATTORNEY DOCKET NO. BAY 1364-010CLP	CONFIRMATION NO.

TITLE OF INVENTION: RAPID SUBCLONING USING SITE-SPECIFIC RECOMBINATION

APPLN. TYPE	SMALL ENTITY	100000			
		ISSUE PER	MIBLICATION FEE	TOTAL FEE(3) DUE	DATE NO
manprovisions)	NO	\$1300	60	\$1300	DATE DUE

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1398.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS AFFLICATION. THE PTOL-35B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

### how to reply to this notice:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY STREET:

A. If the status is the state, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL PEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY mans before, or is now claiming SMALL ENTITY mans, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

O Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance feet. It is patenties's responsibility to ensure timety payment of maintenance feet when due.

Page 1 of 4

PTOLES (REV. 04-92) Approved for use through 01/31/2004.

# PART B - FEE(S) TRANSMITTAL

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# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.		FILMO DATE	FIRST HAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/122,384		07/24/1996	STEPHEN I. ELLEDGE	BAY1364-010CIP	4340
21196	7590	04/22/2003		EXAMIN	ER.
VINSON & E	STREE	Ţ		KETTER, JA	MES S
2300 FIRST CI HOUSTON, T.				ART UNIT	Paper Number
		-0700		1636	
				DATE MATER MESONS	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



#### UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMUNICATIONS AND TRANSPORTED OF ANTENDES AND TRANSPORTED WARRANT, ILC 2001

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET HO.	CONFIRMATION NO
09/122314	07/24/1998	Stephen J. Elledge	BAY1364-010CIP	4340
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HOUSTON, TX 7		• •	1636	,
	_		DATEMAIT PT- 04/22/2001	

### Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fox(s) Dun" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Parent and Trademark Fees for Fiscal Year 2003: Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/majp/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee," will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Parent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Vinson & Elk W& E

Timothy S. Corder Diner Did 512-542-8446 Diner Fex 512-234-3377 trorder@velaw.com

October 3, 2002

CERTIFICATE OF FACSDAILE

I certify that this correspondence is being transmitted on October 3, 2002, by facsimile to the Patent and Tradement-Office in accordance with 37 C.F.R. §1.8.

Ontoher 3, 2007 Date

Pimothy S. Corder

Assistant Commissioner for Patents Washington, D.C. 20231

Re:

U.S. Patent Application SN 09/122,384 "Rapid Subclaning Using Site-Specific Recombination," by Elledge et al.

Attorney Docket No.: BAY136/4-010CIP/36000; Client Ref.: OTA # 97-27

Confirmation No. 4340

Sir.

Enclosed for filing in the above-referenced patent application is a Preliminary Amendment for filing in the above-referenced patent application.

It is believed that no fee is due; however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be required for any reason, the Assistant Commissioner is authorized to appropriately deduct or credit the requisite amount from Vinson & Elkins L.L.P. deposit account No. 22-0365/BAY136/4-010CIP/36000.

Respectfully submitted,

Timothy S. Corder Reg. No. 38,414

9282:5588

Enclosure

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AUSTIN . BEHING . DALLAS . HOLISTON . LONDON . MOSCOW . MEN YORK . MINGLEDON . MASHASTON DE

#### PATENT

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Stephen J. Elledge et al.

Serial No.: 09/122,384

Filed: July 24, 1998

For: Rapid Subcloning Using Site-Specific

Recombination

Group Art Unit: 1636

Examiner: J. Ketter

Any. Dkr. No.: BAY136/4-10CIP/36000

Confirmation No. 4340

#### CERTIFICATE OF FACSIMILE

county that this correspondence is being transmitted on October 3, 2002, by facsimila to the Peters and Trademark Office in accordance with 37 C.F.R. § 1.8.

Timothy S. Corder

#### PRELIMINARY AMENDMENT

### VIA FACSIMILE NO. 703-746-5155

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In advance of prosecution, the Examiner is requested to please amend the above-captioned application as follows:

#### **AMENDMENT**

#### A. In the Claims;

Please cancel all pending claims, i.e. claims 1-20, 26, 30-35, and 37-42, and enter the following new claims:

43. A composition comprising a glutathione-S-transferase-Cre-recombinase fusion polypeptide.

- 44. The composition of claim 43, wherein the polypeptide has an amino acid sequence according to SEQ ID NO:11.
- 45. The composition of claim 43, wherein the composition comprises an enzyme activity with a Cre recombinase efficiency of about 16.8% per microgram of protein.
- 46. An isolated nucleic acid molecule comprising a coding region wherein the coding region encodes a glurathione-S-transferase-Cro-recombinase fusion polypeptide.
- 47. The nucleic acid molecule of claim 46, wherein the coding region comprises the nucleic acid sequence of SEQ ID NO:10.
- 48. The nucleic acid molecule of claim 46, wherein the isolated nucleic acid molecule is an expression vector.
- 49. The nucleic acid molecule of claim 46, wherein the coding region is operatively linked to a promoter effective to direct expression of a glutathione-S-transferase-Cre recombinase fusion polypeptide.
- 50. The mucleic said molecule of claim 49, wherein the promoter is an inducible promoter.
- 51. The nucleic acid of claim 50, wherein the promoter is the tac promoter.
- 52. A host cell comprising the nucleic acid molecule of claim 46.
- 53. A host call comprising the nucleic acid molecule of claim 49.
- 54. The host cell of claim 53, wherein the host cell expresses a Cre recombinase activity.

- The host cell of claim 53, further defined as an E. coli cell. 55.
- A bacterial cell engineered to express a glutathione-S-transferase-Cre-recombinase fusion 56. polypeptide,
- The bacterial cell of claim 56, wherein the polypeptide has an amino acid sequence 57. according to SEO ID NO:11.
- A method of producing a glutathione-S-transferaso-Cro-recombinase fusion polypeptide 58. comprising:

obtaining an expression vector comprising a coding region encoding a glutathione-Stransferase-Cre-recombinase fusion polypeptide operatively linked to a promoter,

transforming or transfecting the vector into a cell; and

growing the cell under conditions effective to express a glutathione-S-transferase-Crorecombinase fusion polypeptide.

- **59**. The method of claim 58, further comprising isolating the glunathione-S-transferase-Crerecombinase fusion polypeptide.
- 60. The method of claim 59, wherein isolating the polypeptide comprises glutathions affinity chromatography.
- 61. A method of recombining nucleic acid segments, wherein each segment comprises a lox site specific recombinase site, the method comprising connering the nucleic acid segments with a glutathione-S-transferase-Cre-recombinase fusion polypeptide.
- The method of claim 61, wherein the polypeptide has an amino acid sequence according **62**. m SEQ ID NO:11.

- 63. A composition comprising a glutathione-S-transferase-Cro-recombinase fusion polypeptide and one or more nucleic acid molecules, wherein the nucleic acids comprise a site specific recombinase site.
- 64. The composition of claim 63, wherein at least one of said nucleic acid molecules comprises a lox recombination site upstream in a 5' to 3' orientation from an amino acid encoding region.
- 65. The composition of claim 63, wherein at least one of said nucleic acid molecules comprises a transcription regulatory element upstream in a 5' to 3' orientation of a lox recombinase site.
- 66. The composition of claim 64 wherein the lox recombinase site is a loxP, loxP2, loxP3, loxP23, loxP31, loxP511, loxB, loxC2, loxL, loxR, loxA86, loxA117, or loxH site.
- 67. The composition of claim 65 wherein the lox recombinase site is a loxP, loxP2, loxP3, loxP31, loxP511, loxB, loxC2, loxI, loxA86, loxA117, or loxH site.
- 68. The composition of claim 64, wherein the amino acid encoding region is a member of a nucleic acid library.

### II. REMARKS

The claims in this preliminary amendment do not add new matter to the application and their entry is therefore respectfully requested. Support for the claims may be found throughout the Specification and at least in Example 3 found on page 47.

#### IV. CONCLUSION

Applicants respectfully submit that the present application and all claims are in condition for immediate allowance and early notice to such effect is earnestly solicited. If, in the opinion to of the Examiner, a phone call may help expedite prosecution of this application, the Examiner is invited to contact the undersigned representative at (512) 542-8446.

It is believed that no fee is due; however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be required for any reason, the Assistant Commissioner is authorized to deduct said fees from Vinson & Elkins L.L.P. Deposit Account No. 22-0365/BAY136/4-10CIP/36000.

Respectfully submitted,

Timothy S. Corder Reg. No. 38,414

Agent for Applicant

Vinson & Elkins L.L.P. 2300 First City Tower 1001 Fannin Houston, Texas 77002-6760 512/542-8446

Date: October 3, 2002